

Title (en)

ELECTROCHROMIC DEVICE INCLUDING LITHIUM-RICH ANTI-PEROVSKITE MATERIAL

Title (de)

ELEKTROCHROME VORRICHTUNG MIT EINEM LITHIUMREICHEN ANTI-PEROWSKITMATERIAL

Title (fr)

DISPOSITIF ÉLECTROCHROME COMPRENANT UN MATÉRIAU D'ANTIPÉROVSKITE RICHE EN LITHIUM

Publication

**EP 3639086 A4 20210310 (EN)**

Application

**EP 18817104 A 20180613**

Priority

- US 201762520077 P 20170615
- US 2018037259 W 20180613

Abstract (en)

[origin: US2018364540A1] An electrochromic device includes a light transmissive first substrate, a working electrode disposed on the first substrate, a light transmissive second substrate facing the first substrate, a counter electrode disposed on the second substrate, and a lithium-rich anti-perovskite (LiRAP) material disposed between the first and second substrates. The LiRAP material includes an ionically conductive and electrically insulating LiRAP material.

IPC 8 full level

**G02F 1/1514** (2019.01); **G02F 1/1523** (2019.01); **G02F 1/153** (2006.01); **G02F 1/155** (2006.01); **B32B 9/00** (2006.01); **B32B 9/04** (2006.01); **B32B 17/06** (2006.01); **B32B 17/10** (2006.01); **B32B 18/00** (2006.01); **B32B 27/08** (2006.01); **C04B 35/515** (2006.01); **C04B 35/553** (2006.01); **E06B 3/67** (2006.01); **E06B 9/24** (2006.01)

CPC (source: EP US)

**B32B 9/005** (2013.01 - US); **B32B 9/007** (2013.01 - EP); **B32B 9/045** (2013.01 - EP); **B32B 17/06** (2013.01 - EP US); **B32B 17/10036** (2013.01 - EP); **B32B 17/10211** (2013.01 - EP); **B32B 17/10513** (2013.01 - EP); **B32B 17/10614** (2013.01 - EP); **B32B 18/00** (2013.01 - EP US); **B32B 27/08** (2013.01 - EP); **C04B 35/5152** (2013.01 - EP US); **C04B 35/553** (2013.01 - EP US); **E06B 3/6722** (2013.01 - EP US); **E06B 9/24** (2013.01 - EP US); **G02F 1/1514** (2018.12 - EP); **G02F 1/1523** (2013.01 - US); **G02F 1/155** (2013.01 - EP US); **B32B 2255/10** (2013.01 - EP); **B32B 2255/20** (2013.01 - EP); **B32B 2255/205** (2013.01 - US); **B32B 2255/26** (2013.01 - US); **B32B 2255/28** (2013.01 - EP); **B32B 2307/202** (2013.01 - US); **B32B 2307/206** (2013.01 - EP); **B32B 2307/412** (2013.01 - EP US); **B32B 2307/71** (2013.01 - US); **B32B 2457/00** (2013.01 - EP); **C04B 2235/3203** (2013.01 - EP US); **C04B 2237/704** (2013.01 - EP US); **E06B 2009/2464** (2013.01 - EP US); **G02F 2001/1555** (2013.01 - EP US); **G02F 2201/086** (2013.01 - EP US)

Citation (search report)

- [Y] WO 2017059364 A1 20170406 - HELIOTROPE TECH INC [US]
- [Y] JIAN GAO ET AL: "Lithium-ion transport in inorganic solid state electrolyte", CHINESE PHYSICS B, vol. 25, no. 1, 7 December 2015 (2015-12-07), Bristol GB, pages 018211, XP055562359, ISSN: 1674-1056, DOI: 10.1088/1674-1056/25/1/018211
- See references of WO 2018231933A1

Cited by

CN111952598A

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

**US 10698287 B2 20200630**; **US 2018364540 A1 20181220**; EP 3639086 A1 20200422; EP 3639086 A4 20210310; US 11299429 B2 20220412; US 11780777 B2 20231010; US 2020285125 A1 20200910; US 2022234960 A1 20220728; WO 2018231933 A1 20181220

DOCDB simple family (application)

**US 201816007488 A 20180613**; EP 18817104 A 20180613; US 2018037259 W 20180613; US 202016883000 A 20200526; US 202217658688 A 20220411